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In the Claims:

Kindly cancel claims 2, 3, and 5. ·

Kindly amend the claims as follows:

- 1. (Currently amended) A gas sensor for monitoring and controlling combustion processes comprising a sensor material of a perovskite structure oxide of formula ABO_x, wherein the A is a large 3-valent ion, wherein B is a transition metal ion substituted to a small degree by tungsten, and wherein x denotes a variable oxygen stoichiometry, wherein bulk stoichiometry of the oxide equilibrates with prevailing oxygen partial pressure, wherein the perovskite formula is $AB_{1-y}W_yO_x$, wherein y is in a range between 0.03 and 0.15, and wherein x is about 3.
 - 2. (Canceled)
 - 3. (Canceled
- 4. (Currently amended) The sensor of claim 3 1, wherein y is in a range between 0.05 and 0.10.
 - 5. (Canceled
- 6. (Currently amended) The sensor of claim 2 1, wherein the perovskite structure is PrFe_{0.95}W_{0.05}O_x.
- 7. (Currently amended) The sensor of claim 2 1, wherein the perovskite structure is $LaFe_{0.95}W_{0.05}O_x$.
- 8. (Original) The sensor of claim 1, wherein the perovskite structure does not form stable sulfates in environments contaminated by sulfur.